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METEOROLOGICAL DATA REPORT

NIKE-HYDAC STV SR-060 SRG-02 (15 September 1967)

51

LEN E. CARTER

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ECOM
UNITED STATES ARMY ELECTRONICS COMMAND



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Вy

Len E. Carter

DR-247

October 1967

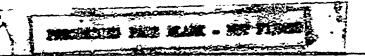
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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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ABSTRACT

Meteorological data gathered for the faunching of Nike-Hydac STV SR-060 are presented for the Ballistic Systems Division U. S. Air Force and for ballistic studies. The data appear, along with calculated bailistic data, in tabular form.



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INTRODUCTION

Nike-Hydac SR-060 (SRG-C2) was launched from Launch Complex 33, L-314, White Sands Missile Range (WSMR), New Mexico, at 0041 hours MDT, 15 September 1967.

Meteorological data used in conjunction with theoretical calculations to predict rocket impact were collected by the Meteorological Support Division, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The Ballistics Meteorologist for this firing was Len E. Carter.

DISCUSSION

Wind data for the first 216 feet above the surface were obtained from a system composed of 5 Aerovanes mounted on a 200 foot tower and cabled to component wind indicators.

From 216 to 4,210 feet above the surface, wind data were obtained from double-theodolite-observed balloon ascents.

Temperature, pressure, and humidity data, along with upper wind data from 4,210 to 73,350 feet above the surface, were obtained from standard rawinsonde observations.

Mean wind component values in each ballistic zone were determined from vertical cross sections by the equal-area method.

Theoretical rocket performance values and ballistic factors as a function of altitude were provided by ASL, and are the basis for data appearing in Table XII.

PATLOAD		270.0	Pounds
CORIOLIS DISPLACEMENT	WRST.	3.7	Hilex
TOTAL TOTAL CONT.	TIME	20.0	Seconds
SECOND-STAGE LUNITLUN	ALTITUDE	35,450.0	Feot MSI.
	TIME	217.2	Seconds
PEAK	ALTITODE	608,593.0	Feet MSL
UNIT WIND SFFECT	RANGE	2,3978	Miles/MPH
UNIT WIND EFFECT	CROSS	2,4719	M11es/MPH
			мілев/мгн
TOWER TILT EFFECT		12,158	M11.68/Degree

TABLE I. THEORETICAL ROCKET PERFORMANCE VALUES NIKE-HYDAC STV (SR-060)

LAYERS IN FEET ABOVE GROUND	RALLISTIC FACTORS	LAYBRS IN FEET ABOVE GROUND	BALLISTIC FACTORS	LAYERS IN FEST ABOVE GROUND
12- 60	0,1661	1000- 1400	0.0531	26000-31450
60- 108	0.0971	1400- 2000	0.0502	31450-34000
108- 148	0.0791	2000- 2500	0.0289	34060-36060
148- 184	0.0599	2500- 3000	0.0167	36000-41000
184- 216	0,0142	3000- 3500	0.0075	41000-46000
216- 300	0.0802	3500- 4210	0.0035	46000-51000
300- 400	0.0656	4210-11000	-0.0159	51000-56000
400- 600	0.0558	11000-16000	-0.0110	56660-61,000
008 -009	0.0562	16000-21000	-0.0104	61000-69350
800-1000	0.0412	2100026000	-0.0097	

BALLISTIC FACTORS

-0.0062

0.0794

0.0346

0.0137

0.0281

0.0076

0,0063

0.0044

0,0039

THE REAL PROPERTY AND ADDRESS OF THE PARTY.

TABLE II. BALLISTIC FACTORS NIKE-HYDAC STV (SR-060)

A 10 TO			MEAN W	IND COM	FONENTS	mean wind components in miles per hour	ES PER	HOUR		
VANE NO. *	2230	1 2230 mdt	2300	2 2300 MDT	2350	3 2350 MDT.	0001.	4 0001. MDT	5 0005 ndt	MDT
	N-S	E-W	S-N	M-X	N-S	E-W	N-S	₩-E	N-S	EW
٦	-4.0	7.0	-8.0 6.0	6.0	-2.0	7.0	0.9-	3.0	-4.0	3.0
8	-7.0	9.0	-12.0	6.0	-5.0	0.8	-7.0	3.0	-6.0	2.0
m	0.6-	14.0	-15.0 10.0	10.01	-7.0	10.0	-8.0	5.0	-7.0	4.0
77	-11.0	14.0	-15.0 12.0	12.0	-7.0	10.0	-8.0	4.0	-7.0	3.0
м	-10.0	-10.0 18.0 -13.0 16.0 -6.0 12.0	-13.0	16.0	-6.0	12.0	-5.0 4.0	4.0	-5.0 4.0	4.0

NAME OF THE PARTY OF THE PARTY

, E			MEAN W	IND COM	MEAN WIND COMPONENTS IN MILES FER HOUR	IN MILE	S PER I	OUR		
VANE NO. *	0012	6 0012 MDT	0020	7 6020 NDT	8 0041 MDT	8 MDT				
	S-N	R-W	N-S	E-W	S-N	R-3	N-S	E-W	N-S	E-W
7	0.4-	3.0	0.4-	2.0	0-9-	2.0				
Q	-7.0	3.0	-7.0	2.0	0.6-	1.0				
Υ	-7.0	4.0	-7.0	3.0	-10.0	0.0				
.t	0.9-	3.0	-7.0	2.0	-10.0	-1.0				
r	-5.0	6.0	-6.0	3.0	.8.0 0.0	0.0				

TABLE III. AND AND SPEED AND DIRECTION NIKE-HYDAC STV (SR-060)

3 = 128 Feet 4 = 168 Feet 1 = 35 Feet 2 = 88 Feet * Heights corresponding to Aerovane Numbers:

y

5 = 200 Feet

.

			MEAN 1	WIND CO.	MPONENT	S IN MI	MEAN WIND COMPONENTS IN MILES PER HOUR	HOUR		,
LAYERS IN FEET ABOVE	2230	1 2230 MDT	2 2300 MDT	MDT	3 2350 MDE	3 MDE	4 0001 MDT	MOT	0005	5 0005 MDC
GROUND	N-S	B-W	N-S	E-W	N-S	E-W	S-N	E-W	S-N	E-19
216- 300	5*2-	17.5	-11.5	15.0	0*9-	11.0	-4.5	3.5	-4.0	3.0
300- 400	-5.5	12,5	-9.5	14.0	0-9-	9.5	0.4-	2,5	-2.0	0.5
700- 600	-7.5	13.0	-12.0	13,0	-6.5	5.5	6.0	-1.5	-12.0	-3.5
900- 800	-13.0	13.0	-15.0	13.5	-9.5	1.5	-15,0	-6.5	-36.5	-5.0
800-1000 -15.0	-15.0	13.5	-19.0	14.0	-13.0	0.5	-16.5	-6.5	-13.5	-4.5
1000-1400 -15.0	-15.0	15.0	-20.0	20.0	-17.0	-5.0	-15.5	-3.5	-14.0	-4.5
1460-2000 -14.0	-14.0	19.5	-20.0	10.0	-15.5	-2.0	-14.5	0.5	-12.0	3.5
2000-2500 -11.5	-11.5	20.0	-17.5	14.0	-16.0	5.5	-20.0	10.5	-15.5	0.6
2500-3000	-6.5	7.5	-16.5	22.0	-19.0	12.5	-20.0	18,5	-15.0	12.0
3000-3500	-7.5	11.0	-12.0	13.0	-19.5	16.0	-17.0	13.5	-14.5	14.5
3500-4000	-5.5	10.0	-15.5	20.0	-17.5	11.5	-15.0	9.5	-14.0	13.5

MINERAL PROPERTY AND THE PROPERTY AND TH

TABLE IV. PIIOT-BAILOON-MEASURED WIND DATA NIKE-HYDAC STV (SR-060)

			MEAN	WILKE CO	MPORENT	MEAN WIND COMPONENTS IN MILES PER HOUR	LEIS PER	HOUR		
LAYERS IN		9	,			8				
ABOVE	0012	0012 MOT	0020 MDT	MDT	004.3 MUT	Mor				
UMDOMD	N-S	M-E	N-S	M-3	N-S	E-W	N-S	E-W	N-S	M-11
008 -97.6	-5.0	5.5	-6.0	3.0	5.6-	1.0				
300- 400	-5.0	2.0	-6.0	2.0	0.8-	ى. ئ				
400- 600	600 -11,5	-3.5	-6.5	-2.0	-15.0	3,5				
600- 800 -14.0	-14.0	-5.5	-14.0	-3.5	-14.0	2.5				
800-1000 -13.0	-13.0	0.9-	-15.0	0.9-	-14.5	H. 55				
1000-1400 -13.5	-13.5	-2.5	-13.0	8.4-	-12.5	N.0				
1400-2000 -14.5	-14.5	2.5	-12.0	3,5	-13.5	4.5				
2000-2500 -18.5	-18.5	15.0	-16.5	11.0	-13.0	11.0				
2500-3000 -21.5	-21.5	16.5	-19.5	15.5	-8.0	16.0			•	
3000-3500 -18.5	-18.5	17.0	-22.5	17.5	-15.0	15.0				
3500-4000 -15.0	-15.0	14.5	-20.5	14.0	-8.0	6.5				

TABLE IV. PIIOT-BALLOON-MEASURED WIND DATA (CONT) NIKE-HYDAC STV (SR-060)

ABOVE 213 ABOVE 213 ABOVE 213 ABOVE 213 ABOVE 113 ABOVE 113 ABOVE 113	2130 ADT -S E-W .0 7.0	~ ~ ~ ~ ~ ~	2 MDT		
7	124		A STATE OF THE PARTY OF THE PAR		
		3	B-W	N-S	严留
		-2.5	8.0		
D.O DANATIONATI	-4.5	7.0	0.4-		
16000-21000 5.0	-14.0	2.5	-13.0		
21000-26000 -9.0	-25.0	0,8-	-21.5		
26000-31450 -13.5	-37.5	-21.0	-36.5		
31450~34000 -16.5	-46.0	-27.0	-46.5		
34000-3600025.5	-30.5	-24.0	-41.5		
36000-41000 -13.5	-37.5	-16.0	-27.5		
41000-46000 0.0	-34.0	-14.5	23.0		
46000-51000 0.0	-28.0	-8.5	-23.0		
51000-56000 9.5	-3.5	11.5	4.0		
56000-61000 1.5	o. v	0.0	7.0		
61000-69350 0.0	20.0	-7.0	19.0		

TABLE V. RAWINSCHUB-MEASURED WIND DATA NIKE-HYDAC STV (SR-060)

51. 1046: 1

STATION ALTITUDE 3989.O FEET MSL F4 SEPT.67 2130 BRS NOT ASCENSION NO. 745

SIGNIFICANT LEVEL DATA 0260003902 WHITE SANDS SIFE TABLE VI

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

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Ų.	PEACENT	•		26.0				88.0	88.0	85.0		25.0	•	24.0			e		** *0		** * C-	** °C	** °C-	** °C-		** • ()	** ** 0-	** • C)-	** °C-		** ':)	** ()-
ERATURE	DEWPOINT	CENTIGRADE	-10	4.2	•	€,		4. **	6.1	-8°	•		- 6	-33.0		.0	8.	÷	ċ	°C	ိုင	ő	•0	င	•0	Č.	č	• 0	c	.0	°C	°C
1	\$	DEGREES	, , , ,	e	€.	8,0	9"0	-2.7	14.4	-5,8	7-4-4	-13.3	-14.8	-17.	-25.3	-29.0	-40,0	-41.0	-42.3	-51.4	-58.3	-62.1	-67.0	-68,9	-65.4	-65.7	-63.2	-67.0	-61.4	-5 R. 4	-52.6	-56,2
GEDMETRIC	TITUDE	Si Fee	3989.0	310	6215.3	729	165	15	2016	54	Ē	U	5290	21971.8	6181.	•	2797	2769	Œ	~	1947	4564	3	Ç	53736. A	3.8	4	57250.5	97	600	73042.4	74483, 9
PRESSIBE		MILLIBARS	٦	868.0	~	690.0	·ď	603-0	, di	o	C	c	Š	C	C	c	¢	Ç	Ċ,	c	C	C	c	c	c	C	B, O .8	6.0	6.0		ć	34.0

ZERO VALUE ASSUMED FOR COMPUTATIONS. REI ATTVE HUMINITY NOT SUPPLIED.

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89.0 FEFT MSI	
4	745
STATION ALTITUDE	ASCENSTON NO.

SIGNIFICANT LEVEL DATA 0260003902 WHITE SANDS SITE TABLE VI (COLE)

WSTM SITE COORDINATES E 488.580 PEET N 185.045 PEET

TEMPERATURE AIR DEWPOINT DEGREES CENTIESAGE	
GEOMETRIC ALTITUDE MSL FEET	
PRESSURE MILLIBARS	

REL. HUM. PERCENT

> 72.0 85766.0 --49.7 0. 19.0 88938.8 --50.0 0. 16.5 92014.8 --46.5 0.

**

ZERO VALUE ASSUMED FOR COMPUTATIONS. R.FLATIVE HUMIDITY NOT SUPPLIED.

. }

STATION ALTITUDE 3989.0 FEFT MSL 14 SFPT.67 2130 HRS NDT ASCENSION NO. 745

UPPER AIR DATA 0260003902 WHITE SANDS SITE TABLE VII

WSTM SITE COORDINATES # 488,580 FEET M 185,045 FEET

GEORETRIC ALTITUDE		TEMP AIR	RA TURE DE WPOI	REL. HUM. PFRCFNT	NSITY /CUBIC	SPEED OF SOUND	WIND DAY	SP FED	INDEX	
ANE TERT	MILL I HAKS	Degrees	CFRICKAUF		•	S TON Y	כא ההט בי	÷ ž	J T	
0 6885 ·	8778	₹	J. 47	0"68	029	7 1.			,00026	
4000.0	~	~	5. 7	32,8	028.	71.			\$3000 €	
4500,0		4	3.7	25.8		73.	•	•	.0002	
5000.n	847.3	23.4	7.5	25.3		7 %	34•8		00028	
5500,0	832. B	22.3	1.2	24. A	•	70.	•		0000°	
6000,0	Œ	6	0.0-	24.2	-	69,	•	3	.00024	
6 500.0	8n 3. 7	19.9	-U.4	25.5		67.	e		.00023	
	789.3	18.5	10.3	78. O		65.	*	ټ	.00023	
7.7500.0	77502	¢	4°U-	30.5		64.		•	0000 *	
800000	761.4	ŧ	-0-	33.1	•	62.			.00023	
8500.0	747_R	α	-0°-7	35.6		61.			.0002	
9000,0	734.4		0,1-	38,3		59.			.00022	
9500. n	721.3	1105	-1.4	40" 7		57.		•	. 200022	
3 10000,0	708.4		-1.9	43,3		56,	0.2	3	0002	
10500,0		•	-2.4	45, 8		5. F.		•	.00021	
11000.0			-2.9	48, 9		52.		•	. 00027	
11500.0	4.079	5.7	F # E ==	52 a 4		51.			02000	
12000.0	658.0	4.1	D 3. G	55,9		464		•	• 000 50	
12500.0	64518	2.6	-4ª 5	59.4	•	47.	7.5	•	.00020	
13000.0	6424	P	-5.2	62. A		4.5	35.		.00023	
13500.0	622.0	-0.4	5 °5 -	71.0		43.	44	3	• 00019	
14000.0	610.3	٥	-4. 6	81.4	-	42.	38.	•	.00019	
14500.0	598.7	-3.2	6 = 4-	88.O		40.	3.62		.00019	
15000.0	587.2	14.5	7 *9"	87. A	•	39.	3.75	~	.00018	
18500.0	576. I	-5.6	€ *8 •	77.8		37.	35.		018	
16000.0	565.0	7-4-7	-17.6	35. A	-	38.	37.	60	.00017	
16500,0	554.1	1.5°3	-2247	74.1		37.	39.	ó	.00016	
17000.0	64679	-6.5	-23.7	24.2	-	36.	30,		.00016	
17500.0	F32.8	-7. R	-24.7	24.4	0 + 6 6 9	634.5		. · ,	1.000160	
18000.0	622.4	0 0 -	-25.7	24. F	e	33,	~	4.	• 00n 15	
,										

FEFT M.SL	2130 HRS KOT
3989.0	2130
ALTITUDE	\$
STATION	14 SFRT. 67

026003902 WHITE SANDS SITE TABLE VII (Cent) UPPER AIR DATA

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

M TI P TRARS	A # A DFGRE	DEWPOINT ES CENTIGRADE	PFRCENT	GM/CUBIC METER	SOUND	DEGREES(TN)	SPEED	OF REFRACTION
	0.00	.25	4	K 7 B	421	S. F.	Ľ	1.00015
	-	7.	. 4	9 0		; ; ; ;-	•	2000 T
. 1	1 22.7	78	24.0	658.6	628.5	301.0) [- -	000
ؿ	*	æ	6	48*	~			4000
14	4		ċ	37.	Ş,	82.	~	00014
63,	5		5	26.	S	73.	3.	.00034
4		-30.1	ġ.	16.	4	650	Š	.0001
43.		-33°O	4	06.	17.	57.	~	.00013
36.		-33.1	5	96	*	51.	•	.00013
427.5		-33,4		86.	ç	46.	6	.00013
# H ==			6	760	•	42.	Ċ.	.00013
ŧ	-21.1	D 986-	င်	66.	£	39.	ċ	400012
€	ς,	-34.3	2	57.		39.	2	00012
	4	-34"6	\$	48.	ις *	59.	€	• 00¢12
	4		3,	30	÷	41.	3.	.00012
£		-35.4	۳	30°	3,	4.2.	ທ	.00012
70,	-26a1		£	210	*	43.	%	.0001F
,	~	-35,5	ŝ	13.	ć	444		.00011
•		ě	ئے	S.		440	20	,00011
347.1	ď	-36.7	2	97.	*	*	6	,0001
39.	1-11-	-38.0	*	88.	5	453	ć	.00011
37,	٠.	F *66-	ċ	30.		45.	ċ	.00010
325,2	-33,4	-40.6	ċ	72.	<u>د</u>	46.	-	.00010
18.	-34.6	-42 n	۴	64.	•	454	*	.00010
11.		-43.3	ŝ	57.	c	45	8	.00010
Ċ	-37.0	-444		49.	8	44	%	.00010
ÒR.	-38,1	-45.9	\$	41.		42.	3°	#0000°
0 0	-30,3	-47.2		34.	Š	43.	60	60000°
ť	-40.4	-49°0	ċ	-	4	46.	*	600
779.1	-41.3	-53.3	76.7**	19.	,	48.		60000

AT 1 FAST ONF ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.0 FEET MSL 14 SEPT.67 2130 BBS MDT ASCENSION NO. 745

UPPER AIR DATA 0260003902 WHITE SANDS SITE TABLE VII (CONE)

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

	I NOEX	OF REFRACTION	.0000	00000	F 2000	• 00000	000	.00008	•00008	• 0000	.00008	0007	.00003	2000	.0000.	.0000	07	,0000	•00000	•00000	9000	• @COD9	~0000	• 00000	0000	90000*	0002	0000	0002	0002	1.000053	0000	9000
	<	SPEED KNOTS F	Ö	•	ų i	'n	•	~	ĵ	6	π, •	e	•	6		ů,	9	8	•	-	\$	2	\$	*	-	ċ		9	Š	s m	32.7	,=	32.1
•	NEM.	DIRECTION DEGREES(TN)	64	. 0 7	0	47.	45.	44.	43.	40.	36.	32.	31.	30.	27.	24.	28.	34.	40*	43.	47.	53.	59.	62.	65.	66.	67.	67.	6 B.	67.	765.3	67.	Ð
	CEO.	SOUND	. 16		\$ C	89.	8	86.	84.	83.	81.	79.	78.	77.	76,	75.	74	73.	72.	71.	70,	69.	68.	. 19	66.	65.	65.	64.	63.	63.	562.3	61,	5 50° 9
	NSITY	M/CUB METER	11.		\$ 5	96	90.	83.	76.	69.	630	57.	49ª	45.	36.	29.	25.	16°	100	034	97.	91.	85.	19.	73.	68,	62.	56.	50.	450	239.8	34"	20°
	E E	F 2	*		k- X-	* *	*	*	*	¥	¥	¥	¥	☆	*	¥	*	*	快餐	쑛 쌲	*	*	∜	*	*	¥	* *	¥	¥	*	荣	各种	*
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•	FMP FRA TURE	706	1.65°		•0	Ç	ċ	•0	č	ė	*0	ć	Č	င်	້	ċ	ပီ	ď	°C	°C	°C	္မင	ċ	ပီ	ئ	° 0	ပိ	č	ပိ	ć	ć	Ç	ů,
	TEMP	A IR Degrees	1.63.		1 4 3 a 1	-44°3	-45.5	-46,6	-47,8	0 "69-		3	- 52, 1	ċ	ŧ	4	155.3	E		2		1.64-	- 59. R	-60.6	-610-3	-620	-62.5	63.1	-63.6	156.1	-44.6	-65-1	7.5.
i	PR FSSURE	MILLIBARS	232.0		¢	*	254.8	ŧ	•	237.9	8	•	221.9	¢	•	. •	-	2	023	87.	4	179.1	4	170.6	166.5	162.5	158.5	154.6	150.9	147.2	143,5	140.0	136.6
	至	SEF	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		34,000,00	14年のの。の	35000.0			5500	かららん	27500.A	38000.0	34506.0	39000.0	39500.0	40000	0 00007 1		41 500. O	などののが, の	47 500. O	43000.0	42300.0	145000° 0	1.4500.0	45000° 0	45500, O	44000.0	46500.0	470074 G	4750010	48000.0

AT LEAST GNE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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は	.9 557.			* * * * * * * * * * * * * * * * * * *
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9 561.66 9 563.7 9 563.7 9 563.8 9 565.9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	.00 560,	, ,		* * * * * * * * * * * * * * * * * * *
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35 56 1	.6 562.			•
1 560.5 3 21.0 3 1	53.3 561.	•		** *C
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.2 559.8 46.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7	46.9 559.	•		***
*9 561*3 55*4 3*5 1*8 *8 562*9 62*3 3*7 1*8 *9 565*9 58*8 5*9 1*8 *5 567*1 65*3 8*7 1*8 *6 567*3 66*1 11*3 1*8 *6 567*3 75*1 1*8 *8 567*3 75	43.2 559.	•		** °C1
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3.5 566.7 588.8 5.0 10 0.4 556.9 61.1 63.3 8.7 1.4 4.5 567.3 64.7 10.0 1.8 1.8 567.5 66.1 11.3 1.4 5.3 567.7 70.1 14.1 1.4	6.9 565.	•	**	** *O *O
0.4 556.9 61.1 65.9 140 7.5 567.1 63.3 8.7 1.0 4.6 567.3 64.7 10.0 1.0 1.8 567.5 66.1 11.3 1.0 9.0 567.7 70.1 14.1 1.0	.5 566.		4.4 4.4	C. +* -CC
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"8 567.5 66.1 11.3 1.00 •0 567.7 70.1 14.1 1.00 -3 567.9 75.1 17.4 1.00	.6 567.	•	**	** "0"
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6.3 567.9 75.1 17.4 1.0	0 567		*	Ç
		•		

AT LEAST ONE ASSIMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. ¥

UPPER AIR DATA	0260003902 WHITE SANDS SITE	TABLE VII (Cont)
	STATION ALTITUDE 3989.0 FEET MSL	ND. 745
• ;	STATION AL	ASCENSION NO. 745

ASCENSION NO.

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

GETMETRIC ALTITUDE NSL'FEET	PR ESSURF MILL TBARS	A I DEGR	TEMPERATURE R DEWPOINT RES CENTIGRADE	REL.HUM. PERCENT	DENSITY SEM CONTROL METER	SPEED OF SOUND KNUTS	DIRECTION DATA	SPEED KNOTS	INDEX OF OF REFRACTION
	7	× :09 =	ئے ۔	*****	. 60	68.	•	18,8	.00002
	A. 5. 5.		ć	**	4	68	90.1	•	.00002
C. COC. C. C	3-09	- 60.0	ć	•	98	68.	. h		.0000
65000-0	7.00 G		ć	***	9	568.6	98°7	15.8	0000
6.5500.0	5.7.5	-59.7	ငံ	** *O-	3	68.	98.1		.0000
66000.0	56.1	- 59.6	č	** *0-	ائنا 6	69	0.86	•	*0000°
66500%	5.4° 5.00	4.66	Č	** *0-	- 4	69	0*66	4.	*0000
67000.0	83% B	£ 646 3	č	*****	8.7. I	.69°	¢ Cr	ä	.0000
67300.0	57.3	- 59.2	č	** *O-	85.0	.69	8	+	.0000x
68000.0		0.65-	ć	** °0-	_	69.	9	•	.0000.
SASBO.	49.3	0.88.1	ċ	++ "0"	_	70.	6	đ	• 00001
69000a	48.5	-58.7	0.	** "0-	78.8	570.2	Š	9	1.000018
69500-0	47.4	- 58.6	Ö	*** *0-	_	70.		80	.00001
70000.0		158.4	5	** *0-	75.0	70.	8	•	.0000
	45.1	-57.6	ć	** *0-	73.0	71.	7	~	*00001
0.00042	444.1	- 56. 6	ċ	** *O-	7.0.9	573.0	97.		_
77500,0	C * K 4	155.6	ć	** "0"	6889	74.	S	-	.0000
	42.0	-54.7	°C	** "0-	67.0	75.	ണ	•	.0000
77500.0	0.14	- 53.7	ပ	***	65,2	76.	-	ល្	.00001
73000.0	40.1	- 52. 7	°C	** *0-	63,3	78.	e Ci	~	
73500.0	1000	-53.1	č	** *0-	62.0	77.	o N	ထိ	• 00001
74000.0	200	-53.6	0,	** *0=	7.09	76.	å	ှံ	10000
74500.0	37,3	-54-1	ċ	** *O-1	50° 4	76.	2	Ġ	* 00001
75000.0	36.5	-54.6	0*	** *0-	58.2	75.	•	19.4	0001
75500.0	35.6	- 55.2	0	** °C-	56.9	744	2	Ġ.	.00000
76000.0	34.8	-55.7	č	** *C-	55.7	74.		ċ	0000
76500.0	34.0	- 56. 7	č	** **	54.6	73*	\$		00001
	33,2	-35,8	ູ້ບ	** "0-	53.2	74.	86.2	ċ	0001
י אצטטזט	32,4	-55.5	ć	-C- **	51.9	574.5	5		1000
78000.0	7-16	-55.3	در	** °()	50,6	•	S.	18.3	0 C

AT LEAST ONE ASSUMED RELATIVE HUMIDETY VALUE WAS USED IN THE INTERPOLATION. 學公

		•		dan
ATTON	ATTON ALTITUDE 3989.0 FFFT MSL	3989.0	FFFT MSL	
SEPT.67	67	2130	2130 HRS MDT	THE THE
DIA MOLUMBU	3/2 NO 11		•	T.A.

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DATA	206	SITE	(Cont)
A K	0250003902	SANDS	VII
	026	S WILLY	TABLE
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WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

	ION	1011	2	0	2	7	~ C	õ	600	600	600	600	800	20	2	800	8	20	2	8	2	1001	1001	900	900	00	00	00	900
	INDEX DF REFRACTI		• 00	00	•		1.000	•	•	•	•	•	1.000	•	•	•	•	•	3		÷	•	•	-	1.000006	69	00	00	1.000
	SPEED KNOTS	18.7	ď.	6	8	8	18.0	8	8	8	Ω,	ô	ċ		္ခံ	9	6	ç,	ô	ő	6	æ							•
	JIND DAT DIRECTION DEGREES(IN)	6	92°2	4	4	4.	92.4	3	9	00	*	-	8	ċ	1.	4	4	9	-	6		æ					-		
	SPEED OF SOUND KNOTS	75,	75.	76.	76.	77.	577.7	78.	78.	79.	79.	80.	80.	80.	81.	81.	82.	82.	8.	81.	83.	81.	81.	82.	583.2	84.	84.	85.	586.2
	DENSITY S GM/CUBIC METER	5.65		Ġ.	45.8			45.5			•	ç				\$						•			78.1	8	•		25.4
	L. HUM.	* *	*	*	*	*	*	*	*	*	於兼	*	∜	*	*	¥	*	¥	*	*	*	# #	¥	*	*	*	*	*	* *
	REL. F PFRCF	ç	-0-	-0	-C-	°C-	C	-0-	ç	-0-	-0-	0-	0-	0-	°C-	-0-	C	ç	0-	0-	-0-	0	-0-	0-	-0-	0-	0	0-0-	ć
	TEMPERATURE R DEWPOINT FFS CENTIGRADE	ő	ċ	ပိ	ငံ	ċ	°	č	ć	° C	ó	ċ	ċ	ő	ő	ć	• c	° C	°	ċ	ငံ	°	* 0	ċ	č	°	ັດ	ć	ć
	TEMP ATR DEGREES	- 54.8	-54.4	- 54° 1	-53.7	-53.4	-10	-5207	-52.3	-52.0	-51.6	-5133	-50,9	- 50,6	- 50.7	6 64-	-49,7	-49.8	-49. B	6 69-	6.64-	- 50.0	-49,9	7.64-	-48.8	-48.7	-47.7	-47.1	- 46. 5
	PR FSSURE MTLLTBARS	30.9		29.5					26.2	•	•		23.9					: 1	•	20°3	19.8	•	18.9		e		Į.	•	16.5
``	TRIC UDE PET	78500-0		79500.0	80656.0	805000	atenn.n	8150C. 0	82000.0	82500.0	83000-0	83500-0		84500-0			0.00098	86500			88000.0	88500,0	89000,0	89500.0		90500.0	91000.0	91 500.0	92000.0
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AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. ¥

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WSTM SITE COORDINATES E 488.580 FEET N 185.045 FEET

PRFSSURE	GEOPOTENTIAL	•	PERATURE	REL. HUM.	GNIM	į
MILL IBARS	#- ## ##	A.I.R Degrees	ER DEWFULNI REES CENTIGRADE	רמאלי מילי	DEGREES(TN)	KNOTS
850.	4511.	23.6	2-2	25.	31,8	
9008	663	19,5	-0.4	26.	0.08	7.0
750.		14,5	T.0-	35.	7,9	6.7
700,0	_	9.1	-2,2	45.	۲۸	
650.	12	. 3a L	-403	58.	m	6.1
9009	_	£	-4-8	88.	~	•
550.	_	-5.8	-23• ₹	24.	340.5	6,6
500°		-11.8	-28.0	25.	80	•
450°C		-1.6.7	-31.6	27.	÷	
\$00°		-22.2	-34.3	33°	•	
350.0		-29.5	-36.2	13. 33.	٠,	
3000		-37.8	-45 a S	454	œ	
250.0		-46.4	ć	# # ° D	m	
200.0		-55.6	¢c	## 01	ന	
175.0		-59.8	ő	* * ° O ···	0	*
150,	46018.	-63.7	•0	***0-	268.5	34.7
125,0		-6703	°C	***O-	.	
100.			٠0	* * C)	.+	
0.08		-63,7	°C	***	~	£
70:07		-60.9	°C	**•O	ıΑ	
0°49	6439	-60,0	ငံ	# # * O	~ i	
50.0	681	-58.9	ő	* * O-	4	
7.04	~	-52.6	. 0	* * • C-	92•2	٠
30.0	7	-54,3	Č	** °C	m	19.1
25.0	8267	-51.6	•0	***0-	8.7	
20°0	α	-49.9	ċ	* * • O−	0	•

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.O FEET MSL 15 SEPT.67 0041 HRS MDT ASCENSION NO. 746

SIGNIFICANT LEVEL DATA 0260003903 WHITE SANDS SITE TABLE IX

MSTM SITE CODRDINATES E 488,580 FEET N 185,045 FEET

	•	1				
٠	•	PRESSURE		TEMPE	TEMPERATURE TO DELEGIME	AEL FOX.
, 4		MILE IBAR	S ASI FEET	DEGREES	CENTIGRADE	
	•	•			•	
۱ ۰. سعار ال		879.6	3989, 0	19.0	8.1	49.0
٠		869.0	4332, 3	20.5	11.0	54.0
.,		825.0	5804°0	1 % 1	6.9	45.0
	,	646.0	12516,6	3.2	-3.6	61.0
, ,	*\ *>	586.0	15077,3	-5.0	-7.0	9 6. 0
,	•	559,0	16790.9	.~8.0	-8.1	100.0
•		556.0	16478.5	-8,5	-8.6	100.0
**	,	537.0	17316.6	-8.0	-21.9	32.0
` .	•	. 518.0	18235.5	-8.8	-23.7	29.0
7 (4	,	508,0	18730,4	-10.6	-24.9	30.0
	,	499.0	19082.5	-10"7	-25.4	29.0
**	•	447°0	22208.3	-17.8	6.06-	31,0
	•	397.0	24.822.8	-23.2	. 6.62-	55.0
	,	0 .348.	27551. 3	-30,3	-35.1	64.0
•		. 290.0	45133°4	-40°2	4.7.4	47.0
* * * * * * * * * * * * * * * * * * * *		. 286.0	32445.4	-40.2	1.64-	36.0
		201.0	40116.4	-55,0	ပိ	** 0-
•		182.0	42199.5	-56.5	• 0	- H# - O-
		152.0	45908.7	-63.1	•0	** '0-
,,,		139.0	47711.5	-65.5	•0	** "0"
./.	•	135.0	48297,8	-65,0	•0	** * G-
**		122.0	56315.6	68.6	*C	** °°
**.		100.0	54289.4	-66.0	Ċ,	** *0-
	.,	. 40°()	73031.1	-56,5	•0	. **
******		35.0	75817.9	-58.6	0.	** * 0-
		30.0	79050. 9	~54.5	0	** *0~
		\$ 6 ·	104183.9	-44-6	. 0	** 0-
		7.8.	108357.7	-40,9	•	*** 0
		. 5.4.	1 26663,6	-40.3	.0.	. ** *0
<i>t</i>		44.3	121858.0	-36,8	0.	** *0-

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WHITE SANDS SITE UPPER AIR DATA 0260003903

STATION ALTITUDE 3989 OF FFFT MSL

S. Carlotte

SITE COURDINATES E 488+580 FEET ESTE

1,000246 000256 1.000220 1.000216 1.000208 .000195 1.000192 . 000189 1.000283 1.000275 1,000267 1.000260 1.000256 1.000242 1.000233 1.000204 1.00019R 1.000185 .. 000179 1.000251 1,000237 . 000224 1.000212 .. 000183 .000169 1.000201 .. 000162 1,000158 1.000281 1.000281 REFRACTION 185,045 (NDEX 90 7.4.4 8.8 11.5 4.2 5.8 14.3 12.7 1009 0.6 7.0 8 0 8 8 7.9 9.2 5.1 4.4 10.2 11.2 2.6 11.9 9.3 6.1 2.1 2.7 6.7 6.1 SPEED KNOTS WIND DATA DEGREEST YOU 144.7 331.6 57.4 157.6 107.1 320.6 80,0 68.6 52.9 20.1 79.8 35.0 32.4 31.9 37.9 58.8 63.0 (45.3 65.6 359.B 348.0 326.4 312.6 46.2 340.3 335,6 315.5 314.2 324.1 SPEED OF 667.6 655.4 683.9 667.1 652.5 635.6 0.699 558.3 566.6 565.2 568.4 0.199 5.659 556.8 651.1 649.7 648.2 646.3 544.4 640.6 637.1 634.1 663.8 558.2 533,5 542.5 638.7 634.2 634.1 SOUND KNOTS 895.4 781.2 043.5 003.8 988.4 908.0 883.0 870.9 858.9 847.0 835.4 823.9 802.0 71400 04482 019.5 946.8 812.6 791.5 761.2 750.2 933.7 920.7 139.2 700.5 973.7 771.1 588,1 GM/CUBIC *096 DENSI TY TABLE X METER REL. HUM. PERCENT 47.9 59.8 51.4 57.4 53.0 49.9 46.9 80.4 31.4 45.5 49.0 52. K 55,0 56.2 58.6 61.0 75.5 90° 0 49.2 46.7 50.2 53. R 65.7 70.6 85.2 44. 5 56.2 49.0 96.1 DEGREES CENTIGRADE DEMPORMY 3.8 3.0 6 .9--7.8 4.01 0.2 7.8 2 6.0 5.2 4.5 1.4 0.6 -0° 3 7.2--3.6 -503 C 3 --41.9 -7.3 -22.9 -44 -40 Z - B. 2 -6.1 TEMPPRA TURE 0041 HRS MOT 20.4 9.4 W 3.0 11.9 6.6 8.6 7.5 5.1 20.7 (0.3 90,20 8,0 6.8 5.6 4.4 3.2 0,3 -1.6 -3.2 -4.8 -7.3 -6a0 2 . K . 18.2 -8.2 8, 5 9.1 1 2 2 S I S MILLIBARS PR FSSURF 746 848.8 789.8 670.4 73403 721.1 608.3 658.3 634.2 849.0 565.4 P63.9 833.9 775.6 761.6 747.8 646a4 576.5 RO 4. 3 768.0 62223 610.8 587.7 554.4 64340 819.1 E82.7 543.7 ASCENSION NO. LS SEPT. 67 GEOM FTRIC 3989.0 5000.0 8000.0 7500.0 9500.0 10000.0 10500.0 3000.0 4500.0 5500.0 7000.0 ACCC. O 8500.0 90000 11000.0 17500-0 2000.0 2500.0 3500.0 4 500° A 5000.0 5 500. O 17500.0 4000,0 6500.0 4000 0 6000.0 16 50G. O 17000.0 ואטטשו M.TITUDE HSt FFFF

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Section of

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FEET MSL	HRS NOT	
3989.U	0041	
al t itude	5.4	345 "UN V
STATION	15 Spots 67	ASC FNS 10

UPPER AIR DATA	0260003903	HHITE SANDS SITE	TABLE X (Cont.)

6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ET
556.6 55	v
55.6 b 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	~
25.5	·
355 5 624 6 7 7 8 6 7 4 6 7 8 7 8	w
255.8 625.8 625.8 625.8 625.9	-0
116,22 094,44 047,14 04	۳.
00%-7 622-9 627-1 627-6 627-1 627-6 627-1 627-6 627-7 627-6 627-7	₩
94.1 621.6 67.3 620.4 68.3 610.4 68.3 610.4 68.3 610.4 69.3 610.5 60.3 6 60.3 6	ت
87.9 620.4 246.2 4 246.3 4 4 20.0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	• 1
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49.9 615.3 246.2 223.6 49.9 615.3 2246.2 223.6 223.7 223.6 223.8 2246.2 223.6 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 2246.2 223.8 224.8 224.8 224.8 223.8 224.8 224.8 223.8 223.8 224.8 223.8 223.8 224.8 223.8 224.8 223.	٠ ته
46.9 6 13.8 246.2 24.6 2 23.8 2 24.5 4 6 12.4 6 12.4 2 246.2 2 24.5 2 24	• `
246.4 23.9 246.4 23.9 24.6 4 23.9 24.5 4 612.4 246.4 245.4 245.7 245.8 245.9 26.5 50.5 50.5 50.5 50.5 50.5 50.5 50.5 5	441
23,4 611,0 246,7 246,7 24,2 26,6 609,6 609,6 24,2 3 24,2 3 24,2 3 60,6 8 24,2 3 24,2 3 60,6 8 24,2 3 24,2 4 60,2 3 23,8 3 20,9 6 65,8 600,8 23,4 8 30,9 66,2 23,4 7 32,5 5 65,8 65,8 65,8 65,8 65,8 65,8 65,8	**
14.9 609.6 245.1 25.6 606.5 608.2 242.9 26.8 242.9 27.7 27.7 28.6 600.8 242.9 27.7 28.6 600.8 240.7 238.9 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	•
06.5 608.2 243.6 26.8 98.3 605.8 242.3 242.3 242.4 242	
98.3 606.8 242.3 27.7 28.6 81.8 603.8 240.7 238.8 29.4 29.4 29.4 29.4 29.4 29.4 29.4 29.4	-
90.0 605.3 240.7 28.6 81.8 603.8 238.8 29.4 73.7 602.3 238.9 29.8 65.8 600.8 237.8 30.9 50.5 597.8 237.7 32.5 43.0 594.7 238.4 37.9 25.8 594.7 238.4 37.9	~
81.8 603.8 238.8 29.4 65.8 600.8 238.3 29.8 55.1 599.3 237.8 30.9 50.5 597.8 237.7 32.5 43.0 594.7 238.4 97.8 25.6 594.7 238.4 97.9	4
45.8 600.8 238.3 29.8 59.8 59.8 59.8 59.8 59.8 50.9 30.9 50.9 50.5 50.5 59.8 59.8 59.8 59.8 59.8 59.8 59.8 59	~
65.8 600.8 238.3 29.8 50.9 50.9 50.9 50.5 597.8 237.7 32.5 50.5 597.0 237.7 32.5 50.5 50.6 594.7 238.4 50.3 50.8 594.2 238.6 40.3 50.5 50.5 50.5 50.5 50.5 50.5 50.5 5	•
58.1 599.3 237.8 30.9 50.5 50.5 597.8 237.7 32.5 55.5 55.6 594.7 238.4 37.3 25.8 594.2 238.4 50.3 50.5 50.5 50.5 50.5 50.5 50.5 50.5	~
50,5 597.8 237.7 32.5 43.0 596.2 238.1 34.7 35.6 594.7 238.4 37.3 26.8 594.2 238.6 40.3	4
43.0 596.2 238.4 37.3 35.6 594.7 238.4 37.3 26.8 594.2 238.6 40.3	~
25.6 594.7 238.4 37.3 26.8 594.2 238.6 40.3	7
26.8 594.2 238.6 40.3	*
10 0 502 0 200 0	*
*CT 0*957 0*576 7*5	4

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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1989. A FEET MSL	DO41 HRS MOT	, , , , , , , , , , , , , , , , , , ,
 ATTEM ALTITUDE 1989. A FEET MSL	SFPT.67	CENSTON NO. 746

UPPER AIR DATA	0260003903	WHITE SANDS SITE	TABLE X (Cont.)
			•

WSTM SITE COURDINATES E 488,580 FEET 'N 185,045 FEET

PR FSSURE MILLTBARS	YEMF ATR DFGREES	VEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GA/CUBIC	SPEED OF SOUND KNOTS	WIND DA DIRECTION DEGREES(IN)	SPEED KNOTS	INDEX OF REFRACTION
-42	^	13.2 B		110	591.7	39	9	0069
. 4	. A:	-54° 3	* 1.*	403.4	590,5	239.6	47.9	00
-44.7			4	95.	89.	40	6	00008
-45.1		-57.5	%*O**	88.	88.	4	-	. 5000
-46. I			1.1	81.	86.	42	B	.000·
-47.1		-80.0	1.9.3**	7.6	85.	\$2	6	* 00008
-48.0	_	-67.7	17.04*	67.	84.	. 6	₽	0000
0.67-		-64.6	4.6	60.	83.	4	2	* 0000°
- 50.0		-65.7	~	53.	81.	-1+	•	.0000
-50.9		-69°0	O	47.	80%	11.	6	.00007
err.		-71:6		40.	.62	44	8	.0000
-52.8		-74. B	5,2**	34.	77.	43.		.00001
-53.8		-79.3		28.	76.	53.	6	0000
- 54.8		-89.5	0.5**	22,	73.	÷7.	4.	*0000°
-55.3	_	ć	•	15.	74.	9	*	.0000
-55.6		ċ	## °O-	08.	74.	50.	8	90000
-56.0	_	č	** "0-	01.	33	51.	ŝ	000066
- 56.4		ć	## *U-	95.	730	M. 2.	ဆိ	•00000
-87° 0		ď	** *0-	89.	72.	33.	Š.	¢ 00006
- 57. 9	_	ċ		83.	7I.	35.	ŝ	0000
- 58, 8		ċ	** "C-	77.	20.	56.	\$.00006
-69.7		ċ	+* *0-	72.	58.	56.	*	000000
- 60.6		° C	## *()-	66.	574	90	ευ •	.00000
-61.5		ċ	++ *0-	620	56.	57.	E e	.0000
-62.4		ċ	-O° **	56.	55.	56.	5	2005
-63-7	_	ပီ	** "()-	51	54.	56.	9	00000
-63,9	_	Ċ	# * "C-	53.	53	56.	, t	00000
-64.6		ċ	+* '0-	£0.	20	57.	2	1.000054
-65.7		c	-), **	35.	.0	7.	~	0005
-65,3		ċ	## *C-	N	561.4	570	2	00

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA	0260003903	WHITE SANDS SITE	(4100) > A TAVE
	TUDE 3989.0 FEET MSL	0041 HRS MDT	377

15 SEPT.67 ASCENSION NO

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

						1	1		1
GEOMETRIC ALTITUDE	PR ESSURF	A THE PERSON AND THE	TEMPERATURE R DEWPOINT	REL.HUM.	DENSITY GM/CUBIC	SPEED OF SOUND	TION	AIA SPEED	INDEX OF
HSE FEET	MILLIBARS	DEGREES	CFNTF3RADE	٠.	METER	NOT	GREES (T	NOT	REFRACTION
685002.0	133.6	-63.4	°	-0° **	24	61.	57	ξ.	.0000
49000	· e		ပ်	÷0-	19.	60°	Ĝ	7.	*0000
69590.0	: '∎		¢	-O- ##	15.	58	63	8	.0000
50000.0	123.0		 O	** *0-	216,5	557.7	265.8	59.9	1.000047
50500.0	120.9	-68.5	°C	** °0-	05.	57.	29	*	*D000°
51090.0		-6843	č	-0° **	00	57.	2	2	.0000
51500.0		-67.8	•0	** *0-	95.	58	73	ę	•0000.
52000.0	2	-67.5	లీ	** °C-	89.	58	₩	w •	•00000
52.500.0		-67.2	°.	** **	84.	58	72	.	.00004
54000.0		÷66.8	ċ	** *O-	80.	59.	7	å	.0000
53.500.0		-66.5	•0	** *0-	75.	90%	70	2	60000
54000.0	10%		ċ	## *O-	70.	60 .	69	Š	.0000
54.500.0	86	-68.9	°C	-0- **	66.	60.	70	2	.0000
55000.0	96.5	-63.6	°	-0°	62.	609	77	8	.0000
0 55500°0	6.36.		°C	-0. **	57.	610	78	*	0003
	0.10	-65.1	ċ	** °C-	50 50 50 50 50 50 50 50 50 50 50 50 50 5	61.	87	_	*0000°
56500.0	89.7	-64.9	.	** •0-	50.	61°	25	æ.	•0000
57000.0		= F4.6	*C	₩ *U-	46.	62.	10	•	• 20003
5.7500.0	4	-64.	•	*# *O-	45*	62.	ð	•	•0000°
58000.0	83.3	- 640 J	Č	++ *0-	38	63	.54.7		.0000
58500.0	84.3	-63.9	°	++ •0-	Š	63.	ð		0003
59000,0		+63.6	ů.	-0-	32.	63.	~	-	. 00002
59500.0	77.5	•	°C	** *0-	œ	54.	40	¢	40000
600003	75.6	-63.1	စီ	-0°	25.	64.	g		.00002
60,500: 0	€	-62.8	č	** "0-	Š	64.	06	•	4,00002
6100000	72.0	-62.6	°C	** *O-	2	65,	02	•	8000
61500.0	70.7	•	ငံ	** "U"	•	659	ø	•	*0000
62000,0	.68.6	-62:3	•0	** "O-	ຕໍ	65.	10.2	ě	00.03
1 62500 0	66.9	-61.8	°C	** *O	ő	99	,	•	.00002
63000.0	65.3	-61.6	:0°	** "C-	1.07.5		80+1	•	00000

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

CEATING ALTITION 2009, O REET MC	カントののもののもののも
15 SEPT.67 0041 HBS MDT	MHITE SANDS SITE
	(anon) to the

INDEX OF REFRACTION	-00002	.0000	.00002	20000	£0000°	-00000	,0000å	• 00000	.0000	.0000	.00001	* 0000 *	. ooooi	.00001	10000	0000	100000	100	.00001	10000		1,000013	0000	.00001	.0000	.0000	00001	.00001	.0000
AYA SPEED KNOTS		3	4	0	٠,	40	'n	بن	å	ς <u>γ</u> .	4		8	6	0		6	6	8		Š	16.0	8	7	8	5		ري ه	0
MIND DA	4	540	Ň	ŗ	8	-	2	04.	02	00	02	05.	07.	07.	07.	2	97.	800	90.	90	200	112.5	95	3		10	8		.+
SPEED OF SOUND KNOTS	56.	57	٠ ئ 2	57.	58.	589	vD.	59.	59.	59.	20.	70.	70	72	71.	71.		2.5	21		, v	571.7	7.1	5	0.	71.	72.	3.	44
DENSITY GN/CUBIC METER	04.	N	56		٠	2	Ġ.		5	6	-	6	-	Š	6		Ĉ.	~	ů.	ø.	6 ·	60°3			4	*	*		
L. HUM.	*	脊条	长养	*	¥	*	*	*	#	*	#	*	¥	X	¥	长	¥	*	*	₩ 4 ₩ 3	} # F #	*	关	*	*	*	*	茶茶	松
REL.H PERCE	.0 <u>.</u>	÷0;	0,	÷0	°C-	ç	ċ	ç	-0-	-0-	ç	٠ 0	Ġ	°	č	°C	ő-	Ċ	Ç.			0	0	0	-0-	-0-	0-	ć	
N A D G	ć	¢	·°C	¢	ċ	0	đ	°.	.	•°	o,	°	ċ	ູ້ດ	•0	c i	ċ	•	ċ	•	6 1	ć	°C	•	٥.	ċ	°C	. 0	•
A IN													•		_	C ·	.	C	C (ė c	e c	C	C	C	Ü			C	C
TEMPERATURE AIR DE WOD!	-61:3	-61° I	# \$0.8 #	÷ 60° 6	160.3	-60° £	# 59°8	- 99.6	E 20°3	- 24.0	-58.8	٠.	m		a	ı,	7.3	0 -2	75° 3	t		. •G	-58.0	-58.4 0	4.	. 7	7.1	- 56° 5	- 45.8
N S	40	-61	ع <u>. د</u>	ひゅつ	OÇ •	6.4 -60.	5.0 ±59.	3.7 - 59	D. 1 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	T.1 -59;	9.9 -58.	8.7 -58.	55 +58a3	4 - 58°C	3 -57.8	4.7 -57.5	1.57.5.7	201 -57.0	1,75,33	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-57.6	58.0	-58.4	-58ª 4	57.7	ist -Stat	ሰ ∘ 5	5.8

AT LEAST ONE ASSUMED RE ATTIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SITE COURDINATES E 488,580 FEET N 185,045 FEET	INDEX OF S REFRACTION	.5 1.00001	6 1.00001	*8 1.000d	.2 1.00001	.5 1.00001	1.00001	• 9 1 000CO	.7 1,00000	.8 1.00000	1.00	.3 1.00000	.3 1.00000	• 3 I • GOOOO	. 8 1.00000	*6 1.00000	 0•	• 6 1 00000	•7 1.00000	• 4 1.00	1 100000	*2 1 00000	. 2 1.00000	1.000	•8 1.00000	.2 1.60000	1.00000	1 1000000	• C 1. 0000	.0 1.00000	1. 00000
ETSE	WIND DATA DIRECTION SPEE DEGREES(IN) KNOT	4.7 2		3.9	3.0		• 5	9.0	7.1	5.2	₩ 4 • 6	1.6	5.6	2.4	.2	89.0	Ω•α	9 . 8	3.2 ¥	¥ 0	0,8	H•3	1.9 L	2.0	1 0.	8.7	.6	0.5	6.6		
AIR DATA 0003903 ANDS SITE X (Cont)	SPEED OF C SOUND KNOTS	r.	9 575	.8 576.		.6 576.	.5 576.	.5 577.	.5 577a	*5 577*	.6 577.	.6 578.	.7 578°	.8 57	.9 578.	.1 579.	.3 579 u	14 57	15 1.	6.	.I 580.	• 4 58	.7 580.	.0 581.	e C	• 6	.0 581.	.3 582°	.7 582	.1 582.	א א א
UPPER AIR 026000 WHITE SAND TABLE X	EL.HUM. DENSITY ERCENT GM/CUBI	67 ** 0-	**	**	57 ** **	* *	-0. **	-0. **	5 **	* *	**	-0. ** 38	**	-0. ** 35	-O. ** 35	**	-0. ** 34	-0. ** 33	-0. ** 32	-0. ** 31	**	-0. ** 30	の2 ・ ** *O-	**	-0. ** 28	*	**	**	*	**	**
FFFT MSL HRS MDT	MPERATURE R DEWPOINT P S CENTIGRADE	5.0			c c	C	.0 7.	ر م	300	J. O.	*O	.0 0.	.6	. 4 0	٥٠ م	, C	, D	6	. C	2	0.	*O	5 0.	ó	0.0	· c	c c		4		, c
TITUDE 3989.0 0041 NO. 746	PRESSURF AIR MILITRARS DEGREE	30. A. LAR	, 12°	! ***	7	1.1	4.7	000	1	25.6	25.	ンなっな	73.9 -5	73.3	22.8	22.3 -52	1	1	2 - 5	. (1	, I &	ı	-		-)))	. 0	. נר ו		
STATION AL 15 SEPT. 67 ASCENSION	GEORFTRIC ALTITOR	· · · C		C CONOR	COCCA	AN FOO.	0.000	81 500-0	0.0000	82500-0	83000-0	B3500-0	SECTION O	84.500-0	85000-0	85500.0	•	O COULTER	87000-3	87500-0	RROOD. O	88300.0	C COCOC	Section of	COUCU-O	סט צטט- ט	01000.0	01.500		0.00500	

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IN THE INTERPOLATION WAS USED AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE ¥ ¥

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UPPER AIR DATA	0260003903	WHITE SANDS SITE	TABLE X (Cont)
	DE 3989.0 FEET MSL	0041 HRS MDT	•
	30		746

MSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET	à : -	WIND DATA DIRECTION SPEED	CHOCK CHOCK CONTRACTOR A CHICK CONTRACT FOR
0260003903 WHITE SANDS SITE TABLE X (Cont)		REL.HUM. DENSITY S PERCENT GM/CUBIC	
89.0 FFET MSL 0041 HRS NDT		TEMPERATURE AIR DEWOOINT	DECEMBER OF LICE AND THE
STATION ALTITUDE 3989.0 FEET MSL 15 SEPT. 67 0041 HRS NDT ASCENSION NO. 746	* * * * * * * * * * * * * * * * * * * *	GEOMETRIC PRESSURF	MOTOR THE MAN TERACO DESCRIPTION OF A TRACTOR

	GECHUETRIC	PR FSSURF	TEM	TEMPERA TURE	HOW.	DENSITA	SPEED OF	KEND	. W	INDEX
	A TITUNE		AIR	DEMPOINT	FRCENT	GM/CUBIC	SOUND	DIRECTION	٥,	בֿ
	. .	HILLIBARS	DEGREES	CENTIGRADE		XU-UX	KNOTS	GREES!	NO.	REFRACTION
eren.									. ,	- 1
,	93500.0	150.4	-48.8	Ċ	** "0"	m	583.		40	• 000
	94000. C	15.0	-48.6	ċ	** "0"	30	₹. 60	20.	S.	000*
, .	94.500° n	্ব	-48.4	č	** *0-	~	583	22.	ស្	000*
	95000.0		-48.2	ငံ	** *U-	2.	584.	22.	ŝ	000
	95500.0		-68.0	c.	-0.	*	58	25.	ហ	000
· *-	96000-0		-47.8	ć	** °0-		584		4	000
ساهت.	96500.0	73.6	-47.6	¢	-0°	ő	584	20.	4.	000*
	97,000.0			ć	** *0-	Ö	585	270	4	000
عاملات بر		12.8	-47.2	ć	****	6	585	05.	*	1.000
Š Tr	98000-0	ir co	-47.0	ċ		6	585		4	000
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	0-00066	•		ő		8	586		0	.000
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			-46.1	ő	+* °U-	17.1	586		*	000
2	-		-45.9	" O	** *0-		587	6	2	000.
3	101400.	10.6	-45.7	ć	-0. **	•	587	96.0	100	1.000004
	102000.0	10.4	-45.5	0	** *0-		587.		'n	000
	102500.0	10.0	-45.3	່ບ	** *O-	15.5	587.	101.4	23,3	
·	103000.0	0°0,.	-49.1	ູ້ຕ	-C. **	•	58	•	~	1.000003
	102500.0	7.6"	6.44-	Ö	## "U-	•	588.	050	(F)	1. 000003
	1040000	`à,5	-440 7	ď	** *C-		588.	07.	m	000
	104500.0	€ 6.	-44-3	60	** *0-	•	589.	.60	\$	000
	105000.0	↓ • € .	-43.9	c c	** "U"		589.	10.	(U)	000•
	105500.0	6 ° 8 .	-43.4	°c	** 0-		.065	12.	2	000
	106000.0	€ 6 0	-43.0	ć	** *C-		590	•	-	1,000003
	106500.0	50 · 60 · ·	-47.5	င်	** *0-		591.	6	¢	000
	107000.0	e C	-42°1	0,	** °C=		591.	6	6	1.000003
	וחז קחף. ח	ξ.	-41.7	ů,	** *C-	•		•	Ú,	1,000003
	104003.0	0 3 2	-41.2	ć	-O- **	•	593	•	.	1,000003

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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YATYUN	ISM TERM OF 1989. O SEET MSI	3989.0	ISH LUUS	5
\$ SFPT. 67	67	0041	OD41 HRS MDT	113
er ENE 10	SECTION SIGN 766			~

UPPER AIR DATA 0260003903 WHITE SANDS SITE TABLE X (CONE)

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

INDEX OF REFRACTION	1.000003	90	.00000	8	0000	00000	1.000002	00000	1.000002	1.000002	00000	• 00000	• 00000	00000	• 000000	00000	00000	00000	• 000000	000000	0000	• 00000	000	0000*	000	1.000001
TA SPEED KNOTS	~ 4	7:51	S	4	2	ċ	æ	•		4.8	4 • 1	0		•	•	•	•	12.8	•	•						
DIRECTION DEGREES(TN)	ထင်ဂ	3 K	40.	W	144.9		8		~	6	9	6	• •		•			#CA	•	ې		-				•
SOUND KNOTS	W t	0.00 0.00 0.00 0.00	93.	93.	93.	93.	93.	93.	93.	93.	.60	94.	94.	94.	94.	.46	* 46	94.	95,	95.	96	96°	97.	O	97.	598.3
DENSITY S GM/CUBIC METER	. jung p	÷ ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	0	ć	ċ	6	6	7.6		e	•		ŧ	•		٥	•	7.8	4	•	7.2	ŧ		\$.8		6.4
REL.HUM. PERCENT	* *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	长	*	*	*	¥ #	*	*	*
REL.	Ç		0.	0-	0-	-0	Ç-	C,	-0-	0-	6-	ç	Ç	ç	Ċ-	-C	-0-	0	Ç	ç	0	٢٥١	Ç	-0-	-0-	ç
TEMPERATURE R DEWPOINT EES CENTIGRADE	č c	် င	ć	ပ	ć	డ్	° C .	ç	ć	ċ	°C	ċ	°C	ç	င်	č	ċ	င်	٥.	c	ć	ċ	ċ	ċ	ć	ٿ
TEMP ATR DFGREES	40.	1 40° 4		-40°7	-40.7	-40-7	-40,6	-40.6	-40.6	-40.5	-40.5	-40.5	-4004	-40.4	-40.3	-40.3	-40.3	1-39.7	7366-	- :7.1	-38.7	-38.4	- 38, 1	-37.7	-37.4	-37.0
PRESSURE MTLLTBARS	C ,	7 4 7	7.3	7.5	6.9	6.8	6.6	6.5	5.4	6.2	6.1	5.9	η. 8.8	5.7	5.6	5,4	£ ላን	5.2	ξ, m	5.0	6.4	4.8	4.7	4.6	4.5	4.4
GEOMETRIC ALTITUDE MSC. FEET	108500.0	1094001	110006.0	110500.0	111000.0	111500.0	112000.0	112500.0	113000.0	133500,0	1114000.0	-	115000.0	0"005511 25	¢	116500.0	117000-0	117500.0	118000.0	118500.0	119000,0	119500.0	120000.0	120500.0	121000,0	121500.0

AT 1. FAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. *****

STATION ALTITUDE 3989.0 FEET MC1 15 SFPT.67 0041 HRS NDT ASCENSION NO. 746

MANDATORY LEVELS 0260003903 WHITE SANDS SITE TABLE XI

WSTM SITE COORDINATES E 488,580 FEET N 185,045 FEET

"PRFSSURF	GEÖPOTENTIAL	ATR	< □	REL. HUM.	WIND	O U
MILL IBARS	# #:		CENTIGRADE		DEGREES (TN)) ¥
C	4	ċ		50.	58	-4
0	æ	17.1	٠.	47.	320	17.4
750.0		%	3.1	51.	152:4	2
700.0	2	*	ě	56.	53.	
650.0	12344.	3,5	*	6.1.		3
600.0	14		•	80 s	310	
- 3	16	-8-3		79.	*	-4
٠.	19	•		29.		
	21741.	-16.8	-30.1	31.	51.	9
	54	-22.8		53.	460	-
	77	-30.0		64.	42.	7
	3131	-38.4		50.	38,	*
250.0	4	-45,8	-58.7	22.4%	41.	2
	4014	-55.1	. •0	****	47ª	w
	4292		•0	*****	55,	Š
		-63.5	•0	****	٠.	27.0
	4		°C	**°C	65.	4
٤.	G,		ć	***0-	70,	3,
80.0			•0	***C-	•	•
Œ	¥C		ô	***0-		
	40	ċ	 O	**°C-	33.	3
80.0	V.	å	°C	***C	02.	4
	72.78	ç	•0	***0-		5
	7875	4,	C	***		.
25.0	8260	-52.9	•	***C-	•	?
	8734	.=	ċ	***0		ထီ
	6381	•	•0	****	20°	4
10.0	10744	-45,1	O	***0-	103.3	23.0
7.0	11 42	-40,7	.	***0-	45.	3
5.0	11776	-30,1	ပီဇ	*** 0-	600	4,

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

RELEASE TIME	TIME	SEC	SECOND-STAGE	• • •	DISFLACI	SHENT IN	MILES D	IMPACT DISPLACIBIENT IN MILES DUE TO WIND	Q)	-IZV	THEORE	THEORETICAL IMPACT	PACT
(regi		12-216 FT	.6 FT	216-4210 FT	10 FT	4210-69350 FT	350 FT	TO.	TOTAL	MOTH (DEG-	OHA OHA	FROM LAUNCHER (IN MILES)	3) 3)
RAWIN-SONDE	PIBAL	SN	* E	N-S	7 2	N-S	R-M	N-S	R-34	rees)	RANGE	S-N	E-W
21.30	2230	7.18	10.5E	11.88	16.9E	6.68	16.0W	25.58	11.4E	018.2	63.2	60.0N	19.7E
2130	2300	11.88	8,3E	16.8S	16,6E	6.68	16.0W	35.2S	8.9E	018.9	53.2	50.3N	17.2B
2130	2350	4.78	8.7E	12.58	8.9E	6,68	16.0W	23,88	W5.0	007.3	62.2	61.7N	7,9E
2130	1000	7.18	3.7E	13.0s	4.0E	6.6S	16.0W	26.78	8.3W	360.0	58.0	58.8N	0.0
2130	2000	5.68	3.1E	11.98	0.4E	6.68	16.0W	24.15	12.5W	355.1	61.5	61.4N	4°5M
2‡30	0012	5.88	3.4E	12.98	3,3E	6,68	16.0W	25.38	9.3W	359.1	60.2	60.2N	1.0W
2130	0020	5.98	2.3E	12.0S	5.0E	6,68	16.0W	24.58	10.5W	357.9	61.0	61.0N	2.2W
2130	0041	8.38	2.6E	13.6S	6.7E	6.68	16,0W	28.55	6.7W	001.6	57.0	57.0N	1.6E
0041	0041	8.38	2.6E	13.6S	6.7E	9.58	16.2W	31.48	6.9W	001.5	54.1	54.1N	1.48

	AZI- MUTH	MILES	FROM LA	MILES FROM LAUNCHER	
	REES)	RANGE	N~S	E-W	
LAUNCHER SETTING (ELEVATION 82.9 DEGREES QE)	0.800	008.0 86.3 85.5N 12.0E	85.5N	12,0E	
NO WIND IMPACT	005,6		85.9 85.5N	8.3E	
PREDICTED SECOND-STAGE IMPACT	360.0	0.09	60.0 60.0N 0.0	0.0	
SECOND-STAGE IMPACT, RADAR TRACK	360.0		68.6 68.6N 0.0	0.0	
PREDICTED BOOSTER IMPACT	005.0	ઈ	1.3 1 JAN -0.1E	-0.1E	
ACTUAL BOOSTER IMPACT	N/A	N/A	N/A	N/A	

TABLE XII. IMPACT PREDICTION DATA NIKE-HYPAC STV (SR-060)

UNCLASSIFIED

Security Classification			
(Recurity classification of title, body of electract and indexis	NTROL DATA - R&D) yred when #	'e everall report is classified)
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			CLASSIFIED
U.S. Army Electronics Command	<u>}</u> :	Zb GROUP	
Ft. Monmouth, New Jersey		-	
S. REPORT TITLE			
METZOROLOGICAL DATA REPORT, NIKE-HYD.	AC STV (SR-060)		
2. DESCRIPTIVE ROTES (Type of report and leadurive desce)			
S. AUTHOR(S) (Cast news, first nesse, Initial)			
Carter, Len E.			
6. REPORT DATE	Te. TOTAL NO. OF PA	-	78. NO. OF REFS
October 1967	34		KONE
SE CONTRECT OR SPANT NO.	Se ORISINATOR'S RE	PORT HUM	BER(8)
	DR-247		
& PROJECT NO.	DR 641		
d. DA Teel TUKEGO196197 00	SA. OTHER REPORT	40(8) (Any	office numbers that may be seeigned
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	12. 890880599 MLI	FER Sec.	WITY
11. Supplementary hotes	U.S. Army E1		
			es Laboratory
			Range, New Mexico
13. ABSTRACT			
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Meteorological data gathered for the launching of Nike-Hydac STV (SR-060) are presented for the Ballistic Systems Division U.S. Air Force and for ballistic studies. The data appear, along with calculated ballistic data, in tabualr form.

DD FOR 1473

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Security Classification

14,	KEY WORDS	LIN	XA	Lin	K 9	· L#	K C
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1. 1	Ball1stics						
Δ.	Dallistics						
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3. V	Wind						
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